

=> file reg

FILE 'REGISTRY' ENTERED AT 11:54:51 ON 14 AUG 2003

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STRUCTURE FILE UPDATES: 13 AUG 2003 HIGHEST RN 566135-25-9

DICTIONARY FILE UPDATES: 13 AUG 2003 HIGHEST RN 566135-25-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 11:54:56 ON 14 AUG 2003

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FILE COVERS 1907 - 14 Aug 2003 VOL 139 ISS 7

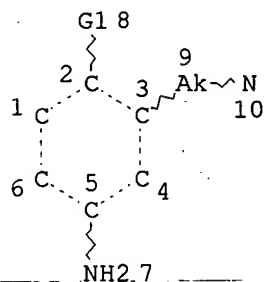
FILE LAST UPDATED: 13 Aug 2003 (20030813/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que

L13 SCR 1568

L18 STR



623 structures

VAR G1=OH/NH2

NODE ATTRIBUTES:

NSPEC IS RC AT 10

CONNECT IS E2 RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

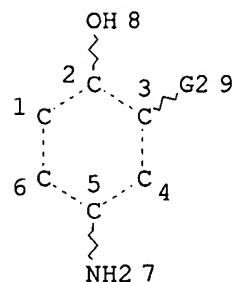
RSPEC 1

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L21 623 SEA FILE=REGISTRY SSS FUL L18 AND L13

L40 STR



CH2-CH2-CH2-N-C
@15 14 13 10 12

CH2-CH2-N
@19 18 16

Subset search

241 structures

CH2-N
@24 23

VAR G2=15/19/24

NODE ATTRIBUTES:

NSPEC IS RC AT 10

NSPEC IS RC AT 12

NSPEC IS RC AT 16

NSPEC IS RC AT 23

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 3

NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

L43 241 SEA FILE=REGISTRY SUB=L21 SSS FUL L40
L44 359 SEA FILE=HCAPLUS ABB=ON L43
L46 146 SEA FILE=HCAPLUS ABB=ON L44(L) (HAIR OR KERAT?) (L) (COLOR? OR
DYE?) (L) OXID?
L47 10 SEA FILE=HCAPLUS ABB=ON L46 AND INTERMEDIATE?

=> d 147 all hitstr 1-10

10 CA references with utility

L47 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:170369 HCAPLUS

DN 138:206431

TI Preparation of 3-aminophenols as oxidative dyeing agents of human hair

IN Pasquier, Cecile; Wyss, Patrick; Braun, Hans-Juergen

PA Wella AG, Germany

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07D333-06

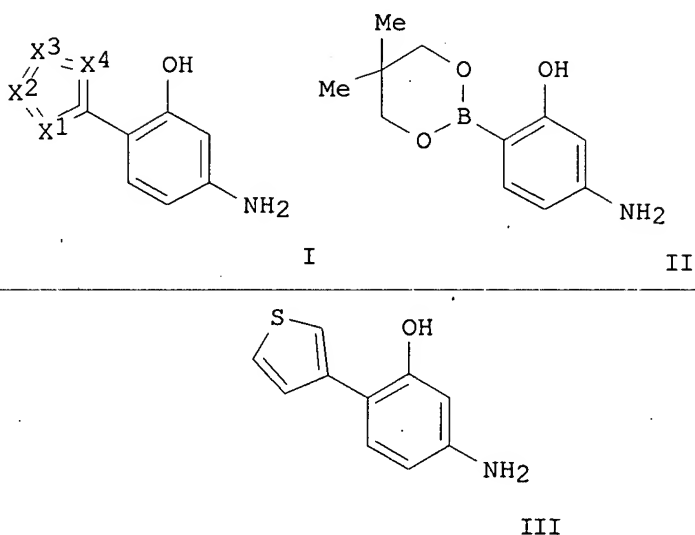
ICS C07D333-20; C07D307-52; C07D277-04; A61K007-13

CC 40-6 (Textiles and Fibers)

Section cross-reference(s): 25, 41

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10141723	A1	20030306	DE 2001-10141723	20010825
	WO 2003018571	A1	20030306	WO 2002-EP4495	20020424
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	DE 2001-10141723	A	20010825		
OS	MARPAT 138:206431				
GI					



AB Title compds. I [X1, X2, X3 = S, N, O, etc., with provisos] were prepd. For example, aryl coupling of dioxaborinane II, e.g., prepd. from 3-aminophenol in 4-steps, and 3-bromothiophene, followed by HCL mediated phenol deprotection afforded diaminobenzene III hydrochloride in 23% yield. In coloration studies of bleached hair, 9-examples of compds. I in combination with 4-dyeing developers resulted in a range of hair coloring, e.g., a prepn. of diaminobenzene III hydrochloride and 2,5-diaminotoluene sulfate produced a violet color.

ST prepn aminophenol oxidative dye agent human hair keratin

IT Hair preparations

(dyes; prepn. of aminophenols as oxidative dyeing agents of human hair.)

IT Human

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IT Keratins

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(prepn. of aminophenols as oxidative dyeing agents of human hair.)

IT	500354-21-2P, 3-Ethoxymethoxyphenylamine	500354-22-3P	500354-23-4P
	500354-24-5P		

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of aminophenols as oxidative dyeing agents of human hair.)

IT 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazol

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

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IT 83-56-7, 1,5-Naphthalenediol 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone
89-57-6, 5-Aminosalicylic acid 89-83-8, 5-Methyl-2-(1-methylethyl)phenol
90-15-3, 1-Naphthol 91-56-5, 2,3-Indolindione 91-68-9,
3-Diethylaminophenol 92-44-4, 2,3-Dihydroxynaphthalene 92-65-9,
4-[Ethyl(2-hydroxyethyl)amino]aniline 93-05-0, 4-Diethylaminoaniline
95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 95-88-5,
1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-Dimethylaminophenol 99-98-9,
4-Dimethylaminoaniline 101-54-2, 4-Phenylaminoaniline 106-50-3,
1,4-Diaminobenzene, reactions 108-45-2, 1,3-Diaminobenzene, reactions
108-46-3, 1,3-Dihydroxybenzene, reactions 123-30-8, 4-Aminophenol

137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6,
2,6-Diaminopyridine 150-75-4, 4-Methylaminophenol 399-95-1,
4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-31-3,
3,4-Methylenedioxyphenol 533-73-3, 1,2,4-Trihydroxybenzene 575-38-2,
1,7-Naphthalenediol 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5,
3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-50-9
615-66-7, 2-Chloro-1,4-diaminobenzene 619-05-6, 3,4-Diaminobenzoic acid
770-25-2, 3-[(2-Hydroxyethyl)amino]phenol 1004-74-6,
2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone
1630-11-1, 1,4-Diamino-3,5-diethylbenzene 1687-53-2,
5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2359-52-6,
4-[Di(2-hydroxyethyl)amino]-2-methylaniline 2380-84-9, 7-Hydroxyindole
2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2,
5-Amino-2-methylphenol 2835-96-3, 4-Amino-2-methylphenol 2835-98-5,
2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7,
2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene
5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9,
2-Methyl-1-naphtholacetate 5862-80-6, 4-[(2,3-
Dihydroxypropyl)amino]aniline 6201-65-6, 2-Chloro-1,3-dihydroxybenzene
6265-21-0, 3-[(2-Hydroxyethyl)amino]aniline 6358-09-4,
2-Amino-6-chloro-4-nitrophenol 6393-01-7, 1,4-Diamino-2,5-
dimethylbenzene 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene
7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 7228-00-4,
2-[(3-Hydroxyphenyl)amino]acetamide 7469-77-4, 2-Methyl-1-naphthol
7575-35-1, 4-[Di(2-hydroxyethyl)amino]aniline 14268-66-7,
3,4-Methylenedioxyaniline 16867-03-1, 2-Amino-3-hydroxypyridine
17672-22-9, 2-Amino-6-methylphenol 26011-57-4, 6-Amino-3,4-dihydro-
[1,4](2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-
benzoxazine 26455-21-0, N-(3-Dimethylaminophenyl)urea 28020-38-4,
2,3-Diamino-6-methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline
29785-47-5, 4-Amino-2-(methoxymethyl)phenol 39489-79-7,
5-Amino-2,4-dichlorophenol 53222-92-7, 3-Amino-2-methylphenol
55302-96-0, 5-[(2-Hydroxyethyl)amino]-2-methylphenol 61693-42-3,
3-Amino-2,4-dichlorophenol 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline
67199-87-5, 1,4-Diamino-2-aminomethylbenzene 70643-19-5,
2,4-Diamino-1-(2-hydroxyethoxy)benzene 70643-20-8, 1,3-Diamino-4-(2-
hydroxyethoxy)benzene sulfate 71077-37-7, 1,3-Diamino-4-(2-
methoxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-hydroxyethyl)amino]-1-
ethoxybenzene 71500-42-0, 3-[Di(2-hydroxyethyl)amino]aniline
73793-80-3, 1,4-Diamino-2-hydroxymethylbenzene 74918-21-1,
1,3-Bis(2,4-diaminophenoxy)propane tetrahydrochloride 75513-65-4,
1,3-Diamino-4-(2,3-dihydroxypropoxy)benzene 76045-64-2,
3-[(2-Aminoethyl)amino]aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-
methylaminobenzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol
80592-80-9, 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0,
3-[(2-Hydroxyethyl)amino]-2-methylphenol 81329-90-0,
5-[(2-Hydroxyethyl)amino]-1,3-benzodioxol 81892-72-0,
1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-
hydroxyethyl)amino]anisole 83763-48-8 84540-47-6, 2,6-Dihydroxy-3,4-
dimethylpyridine 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1,
3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-
dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol
90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 93841-24-8,
1,4-Diamino-2-(2-hydroxyethyl)benzene 93841-25-9 94082-77-6,
2,4-Diamino-1,5-di(2-hydroxyethoxy)benzene 94158-14-2 97902-52-8,
1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6, 4-Amino-2-(2-
hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol
104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 104752-50-3,

1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 105293-89-8, 4-Dipropylaminoaniline 109942-17-8, 2,5-Diaminobiphenyl 110102-86-8, 5-Amino-4-chloro-2-methylphenol **110952-46-0**, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8, 2,4-Di-[(2-Hydroxyethyl)amino]-1,5-dimethoxybenzene 126335-43-1, 1,4-Diamino-2-(2-hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[(4-aminophenyl)(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis[(4-Aminophenyl)amino]butane 131657-78-8, 6-Chloro-2-ethylamino-4-nitrophenol **135043-64-0**, 4-Amino-2-aminomethylphenol dihydrochloride 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2, 2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5, 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2, 3-[(2-Methoxyethyl)amino]phenol 146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethyl)aminotoluene 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazol 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazol 155601-30-2 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazol 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazol 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168092-23-7, Di(2,4-diaminophenoxy)methane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 207923-07-7, 5-Amino-2-ethylphenol 217311-43-8, 2,4-Diamino-5-fluorotoluene sulfate 244104-61-8, 1,4-Diamino-2-(thiophen-2-yl)benzene 246244-41-7, 1,4-Diamino-2-(thiophen-3-yl)benzene 282542-32-9, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine sulfate 306959-12-6, 1,4-Diamino-2-(pyridin-3-yl)benzene 307493-94-3, 1,3-Diamino-4-(3-hydroxypropoxy)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-methoxymethylbenzene 350482-02-9, 5-Amino-4-fluoro-2-methylphenol sulfate

RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(prepn. of aminophenols as **oxidative dyeing** agents of human **hair**.)

IT 500353-66-2P, 5-Amino-2-(3-thienyl)phenol 500353-67-3P, 5-Amino-2-(3-furyl)phenol 500353-68-4P, 5-Amino-2-(pyrrol-3-yl)phenol 500353-69-5P, 5-Amino-2-(1-methyl-1H-pyrrol-3-yl)phenol 500353-70-8P, 5-Amino-2-(1,3-thiazol-2-yl)phenol 500353-71-9P, 5-Amino-2-(1,3-thiazol-5-yl)phenol 500353-72-0P, 5-Amino-2-(2-thienyl)phenol 500353-73-1P, 5-Amino-2-(2-furyl)phenol 500353-74-2P, 5-Amino-2-(pyrrol-2-yl)phenol 500353-75-3P, 5-Amino-2-(1-methyl-1H-pyrrol-2-yl)phenol 500353-76-4P, 5-Amino-2-(2-chloro-3-thienyl)phenol 500353-77-5P, 5-Amino-2-(2-methyl-3-thienyl)phenol 500353-78-6P, 5-Amino-2-(2-nitro-3-thienyl)phenol 500353-79-7P, 5-Amino-2-(2-amino-3-thienyl)phenol 500353-80-0P, 5-Amino-2-(2-acetyl-3-thienyl)phenol 500353-81-1P, 5-Amino-2-(2-formyl-3-thienyl)phenol 500353-82-2P, 5-Amino-2-(4-chloro-3-thienyl)phenol 500353-83-3P, 5-Amino-2-(4-methyl-3-thienyl)phenol 500353-84-4P, 5-Amino-2-(4-nitro-3-thienyl)phenol 500353-85-5P, 5-Amino-2-(4-amino-3-thienyl)phenol 500353-86-6P, 5-Amino-2-(4-acetyl-3-thienyl)phenol 500353-87-7P, 5-Amino-2-(4-formyl-3-thienyl)phenol 500353-88-8P, 5-Amino-2-(5-chloro-3-thienyl)phenol 500353-89-9P, 5-Amino-2-(5-methyl-3-thienyl)phenol 500353-90-2P, 5-Amino-2-(5-nitro-3-thienyl)phenol 500353-91-3P, 5-Amino-2-(5-acetyl-3-thienyl)phenol 500353-92-4P,

5-Amino-2-(5-amino-3-thienyl)phenol 500353-93-5P, 5-Amino-2-(5-formyl-3-thienyl)phenol 500353-94-6P, 5-Amino-2-(5-formyl-3-furyl)phenol 500353-95-7P, 5-Amino-2-(3-chloro-2-thienyl)phenol 500353-96-8P, 5-Amino-2-(3-methyl-2-thienyl)phenol 500353-97-9P, 5-Amino-2-(3-nitro-2-thienyl)phenol 500353-98-0P, 5-Amino-2-(3-amino-2-thienyl)phenol 500353-99-1P, 5-Amino-2-(3-acetyl-2-thienyl)phenol 500354-00-7P, 5-Amino-2-(3-formyl-2-thienyl)phenol 500354-01-8P, 5-Amino-2-(4-chloro-2-thienyl)phenol 500354-02-9P, 5-Amino-2-(4-methyl-2-thienyl)phenol 500354-03-0P, 5-Amino-2-(4-nitro-2-thienyl)phenol 500354-04-1P, 5-Amino-2-(4-amino-2-thienyl)phenol 500354-05-2P, 5-Amino-2-(4-acetyl-2-thienyl)phenol 500354-07-4P, 5-Amino-2-(4-formyl-2-thienyl)phenol 500354-08-5P, 5-Amino-2-(5-chloro-2-thienyl)phenol 500354-09-6P, 5-Amino-2-(5-methyl-2-thienyl)phenol 500354-10-9P, 5-Amino-2-(5-nitro-2-thienyl)phenol 500354-11-0P, 5-Amino-2-(5-amino-2-thienyl)phenol 500354-12-1P, 5-Amino-2-(5-acetyl-2-thienyl)phenol 500354-13-2P, 5-Amino-2-(5-formyl-2-thienyl)phenol 500354-14-3P, 5-Amino-2-(5-formyl-2-furyl)phenol 500354-15-4P, 5-Amino-2-(5-nitro-1,3-thiazol-2-yl)phenol 500354-16-5P, 5-Amino-2-(5-amino-1,3-thiazol-2-yl)phenol 500354-17-6P, 5-Amino-2-(2-nitro-1,3-thiazol-5-yl)phenol 500354-18-7P, 5-Amino-2-(2-amino-1,3-thiazol-5-yl)phenol 500354-19-8P, 5-Amino-2-(3,5-dimethyl-1H-pyrazol-4-yl)phenol 500354-20-1P, 5-Amino-2-(5-nitro-4H-1,2,4-triazol-3-yl)phenol 500354-25-6P, 5-Amino-2-(3-thienyl)phenol hydrochloride 500354-26-7P, 5-Amino-2-(3-furyl)phenol hydrochloride 500354-27-8P, 5-Amino-2-(1,3-thiazol-2-yl)phenol hydrochloride 500354-28-9P, 5-Amino-2-(2-thienyl)phenol hydrochloride 500354-29-0P, 5-Amino-2-(4-methyl-3-thienyl)phenol hydrochloride 500354-30-3P, 5-Amino-2-(2-chloro-3-thienyl)phenol hydrochloride 500354-31-4P, 5-Amino-2-(5-chloro-2-thienyl)phenol hydrochloride 500354-32-5P, 5-Amino-2-(5-acetyl-2-thienyl)phenol hydrochloride 500354-33-6P, 5-Amino-2-(5-formyl-2-furyl)phenol hydrochloride
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aminophenols as oxidative dyeing agents of human hair.)

IT 872-31-1, 3-Bromothiophene 1003-09-4, 2-Bromothiophene 2873-18-9, 2-Bromo-5-chlorothiophene 3034-53-5, 2-Bromo-1,3-thiazol 3188-13-4, Chloromethyl ethyl ether 4701-17-1, 2-Bromo-5-formylthiophene 5370-25-2, 2-Bromo-5-acetylthiophene 22037-28-1, 3-Bromofuran 24424-99-5, Di-tert-butylidicarbonate 30318-99-1, 3-Bromo-4-methylthiophene 40032-73-3, 3-Bromo-2-chlorothiophene 201733-56-4
RL: RCT (Reactant); RACT (Reactant or reagent)

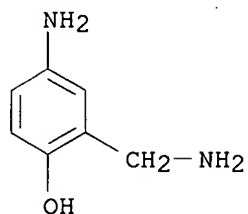
(prepn. of aminophenols as oxidative dyeing agents of human hair.)

IT 79352-72-0, 4-Amino-2-(aminomethyl)phenol 110952-46-0, 4-Amino-2-[(2-hydroxyethyl)amino]methylphenol 135043-64-0, 4-Amino-2-aminomethylphenol dihydrochloride
RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)

(prepn. of aminophenols as oxidative dyeing agents of human hair.)

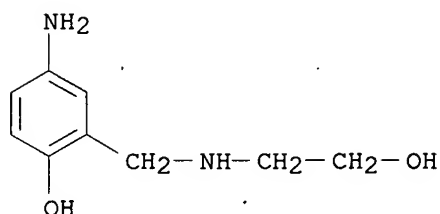
RN 79352-72-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)- (9CI) (CA INDEX NAME)



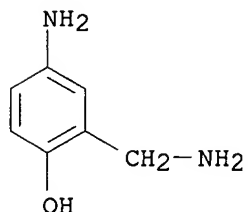
RN 110952-46-0 HCAPLUS

CN Phenol, 4-amino-2-[[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



RN 135043-64-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L47 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:777882 HCAPLUS

DN 137:296211

TI (1-Amino-4-hydroxyphenyl)acrylamide derivatives and oxidative hair dyes containing them

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella Aktiengesellschaft, Germany

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM C07C237-20

ICS A61K007-13; D06P001-32; C07D295-18; C07D295-12; C07D231-38;
C07D307-52; C07D211-46; C07D207-27; C07D213-75; C07D233-61;

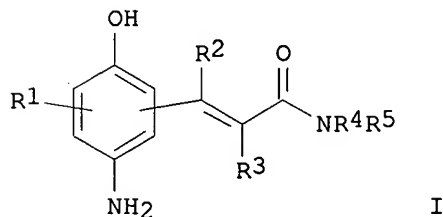
C07D307-22; C07D317-66; C07D207-08; C07D207-16; C07D211-42

CC 41-8 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 25, 27, 28, 62

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002079144	A1	20021010	WO 2001-EP12126	20011019
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10115994	A1	20021010	DE 2001-10115994	20010330
EP 1286953	A1	20030305	EP 2001-274059	20011019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011197	A	20030408	BR 2001-11197	20011019
PRAI DE 2001-10115994	A	20010330		
WO 2001-EP12126	W	20011019		
OS MARPAT 137:296211				
GI				



AB The invention relates to aminohydroxyphenylacrylamide derivs. (I; R1 = H, halogen, alkyl, hydroxyalkyl, alkoxy; R2, R3 = H, alkyl; R4, R5 = H, alkyl, unsatd. alkyl, hydroxyalkyl, alkoxy, optionally substituted aminoalkyl, cyanoalkyl, carboxyalkyl, aminocarbonylalkyl, arom. group, heterocyclic group) or physiol. acceptable, water-sol. salts of I, and to oxidative hair dyes contg. I as developers. I provide hair dyes with very good fastness to light and washing. Examples were given in which 3-(5-amino-2-hydroxyphenyl)acrylamide derivs. were prepd. from 3-[5-(tert-butoxycarbonylamino)-2-(ethoxymethoxy)phenyl]acrylic acid and the appropriate amines or amine derivs.

ST aminohydroxyphenylacrylamide deriv prodn developer component oxidative hair dye

IT Hair preparations

(dyes, oxidative; aminohydroxyphenylacrylamide deriv. developers for oxidative hair dyes)

IT 467466-23-5 467466-24-6 467466-25-7 467466-26-8 467466-27-9
467466-28-0 467466-29-1 467466-30-4

RL: TEM (Technical or engineered material use); USES (Uses)
(aminohydroxyphenylacrylamide deriv. developers for oxidative hair dyes)

IT 128-08-5, N-Bromosuccinimide

RL: RCT (Reactant); RACT (Reactant or reagent)
(brominating agent; prodn. of aminohydroxyphenylacrylamide deriv. developers for oxidative hair dyes)

IT 14268-66-7, 3,4-Methylenedioxyaniline

RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(couplers for oxidative hair dyes contg. aminohydroxyphenylacrylamide deriv. developers)

IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 90-15-3, 1-Naphthol 91-56-5, 2,3-Indolinedione 91-68-9, 3-(Diethylamino)phenol 92-44-4, 2,3-Dihydroxynaphthalene 95-88-5, 1-Chloro-2,4-dihydroxybenzene 99-07-0, 3-(Dimethylamino)phenol 108-45-2, 1,3-Diaminobenzene, uses 108-46-3, 1,3-Dihydroxybenzene, uses 137-19-9, 1,5-Dichloro-2,4-dihydroxybenzene 141-86-6, 2,6-Diaminopyridine 533-31-3, 3,4-Methylenedioxyphenol 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2, 3-(2-Hydroxyethylamino)phenol 1687-53-2, 5-Amino-2-methoxyphenol 1953-54-4, 5-Hydroxyindole 2380-84-9, 7-Hydroxyindole 2380-86-1, 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol 3131-52-0, 5,6-Dihydroxyindole 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene 5697-02-9, 2-Methyl-1-naphthol acetate 6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-(2-Hydroxyethylamino)aniline 6941-70-4, 6-Bromo-1-hydroxy-3,4-methylenedioxybenzene 7228-00-4, 2-(3-Hydroxyphenylamino)acetamide 7469-77-4, 2-Methyl-1-naphthol 16867-03-1, 2-Amino-3-hydroxypyridine 26011-57-4, 6-Amino-3,4-dihydro-1,4(2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-benzoxazine 26455-21-0, N-[3-(Dimethylamino)phenyl]urea 28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5, 5,6-Dihydroxyindoline 39489-79-7, 5-Amino-2,4-dichlorophenol 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-(2-Hydroxyethylamino)-2-methylphenol 61693-42-3, 3-Amino-2,4-dichlorophenol 70643-19-5, 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71077-37-7, 1,3-Diamino-4-(2-methoxyethoxy)benzene 71500-41-9, 4-Amino-2-[bis(2-hydroxyethyl)amino]-1-ethoxybenzene 71500-42-0, 3-[Bis(2-hydroxyethyl)amino]aniline 76045-64-2, 3-(2-Aminoethylamino)aniline 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-(methylamino)benzene 80592-80-9, 3-(2,3-Dihydroxypropylamino)-2-methylphenol 80592-81-0, 3-(2-Hydroxyethylamino)-2-methylphenol 81892-72-0, 1,3-Bis(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-(2-hydroxyethylamino)anisole 84540-47-6, 2,6-Dihydroxy-3,4-dimethylpyridine 84540-48-7, 2,4-Diaminophenoxyacetic acid 84540-50-1, 3-Amino-2-chloro-6-methylphenol 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7, 2-(4-Amino-2-hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-(methylamino)pyridine 94082-77-6, 2,4-Diamino-1,5-bis(2-hydroxyethoxy)benzene 104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 110102-86-8, 5-Amino-4-chloro-2-methylphenol 111451-24-2, 2,6-Diamino-3,5-dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 137290-78-9, 5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-(2-Hydroxyethylamino)-4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol 141614-04-2,

2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3, 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5,
2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2, 3-(2-Methoxyethylamino)phenol 146658-65-3, 5-(3-Hydroxypropylamino)-2-methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethylamino)toluene 168092-23-7, Bis(2,4-diaminophenoxy)methane 207923-07-7,
5-Amino-2-ethylphenol 244028-58-8, 2,4-Bis(2-hydroxyethylamino)-1,5-dimethoxybenzene 244028-59-9, 5-(2-Hydroxyethylamino)-1,3-benzodioxole 307493-94-3, 1,3-Diamino-4-(3-hydroxypropoxy)benzene 364327-98-0,
1,3-Diamino-4-(2,3-dihydroxypropyl)benzene

RL: TEM (Technical or engineered material use); USES (Uses)

(couplers for oxidative hair dyes contg. aminohydroxyphenylacrylamide deriv. developers)

IT 89-57-6, 5-Aminosalicylic acid 92-65-9, 4-[N-Ethyl-N-(2-hydroxyethyl)amino]aniline 93-05-0, 4-(Diethylamino)aniline 95-55-6, 2-Aminophenol 95-70-5, 1,4-Diamino-2-methylbenzene 99-98-9, 4-(Dimethylamino)aniline 101-54-2, 4-Anilinoaniline 106-50-3, 1,4-Diaminobenzene, uses 150-75-4, 4-(Methylamino)phenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2, 4-Amino-2-fluorophenol 533-73-3, 1,2,4-Trihydroxybenzene 615-66-7, 2-Chloro-1,4-diaminobenzene 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 2,5,6-Triamino-4-(1H)-pyrimidone 1630-11-1, 1,4-Diamino-3,5-diethylbenzene 2359-52-6, 4-[Bis(2-hydroxyethyl)amino]-2-methylaniline 2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 4318-76-7, 2,5-Diaminopyridine 5306-96-7, 1,4-Diamino-2,3-dimethylbenzene 5862-80-6, 4-[(2,3-Dihydroxypropyl)amino]aniline 6393-01-7, 1,4-Diamino-2,5-dimethylbenzene 7218-02-2, 1,4-Diamino-2,6-dimethylbenzene 17672-22-9, 2-Amino-6-methylphenol 29785-47-5, 4-Amino-2-(methoxymethyl)phenol 45514-38-3, 4,5-Diamino-1-methyl-1H-pyrazole 66566-48-1, 4-[(2-Methoxyethyl)amino]aniline 67199-87-5, 1,4-Diamino-2-(aminomethyl)benzene 73793-80-3, 1,4-Diamino-2-(hydroxymethyl)benzene 79352-72-0, 4-Amino-2-(aminomethyl)phenol 93841-24-8, 1,4-Diamino-2-(2-hydroxyethyl)benzene 97902-52-8, 1,4-Diamino-2-(1-methylethyl)benzene 104333-08-6, 4-Amino-2-(2-hydroxyethyl)phenol 104333-09-7, 4-Amino-2-(hydroxymethyl)phenol 104752-48-9, 4-[(3-Hydroxypropyl)amino]aniline 105293-89-8, 4-(Dipropylamino)aniline 109942-17-8, 2,5-Diaminobiphenyl 110952-46-0, 4-Amino-2-(2-hydroxyethylaminomethyl)phenol 126335-43-1, 1,4-Diamino-2-(hydroxyethoxy)benzene 128729-30-6, 1,3-Bis[N-(4-aminophenyl)-N-(2-hydroxyethyl)amino]-2-propanol 130582-53-5, 1,4-Bis(4-aminophenylamino)butane 155601-16-4, 4,5-Diamino-1-(1-methylethyl)-1H-pyrazole 157469-54-0, 4,5-Diamino-1-[(4-methylphenyl)methyl]-1H-pyrazole 157469-55-1, 1-[(4-Chlorophenyl)methyl]-4,5-diamino-1H-pyrazole 159661-45-7, 1,8-Bis(2,5-diaminophenoxy)-3,6-dioxaoctane 168202-61-7, 4-Amino-3-(hydroxymethyl)phenol 207568-58-9, 2-[2-(Acetylamino)ethoxy]-1,4-diaminobenzene 244104-61-8, 1,4-Diamino-2-(2-thienyl)benzene 246244-41-7, 1,4-Diamino-2-(3-thienyl)benzene 306959-12-6, 1,4-Diamino-2-(3-pyridyl)benzene 329320-36-7, 1,4-Diamino-2-(1-hydroxyethyl)benzene 337906-36-2, 1,4-Diamino-2-(methoxymethyl)benzene

RL: TEM (Technical or engineered material use); USES (Uses)

(in oxidative hair dye compns. contg.

aminohydroxyphenylacrylamide deriv. developers)

IT 364598-99-2P 364599-00-8P 364599-01-9P 467466-31-5P 467466-32-6P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prodn. of aminohydroxyphenylacrylamide deriv.

developers for oxidative hair dyes)

IT	467466-33-7P	467466-34-8P	467466-35-9P	467466-36-0P	467466-37-1P
	467466-38-2P	467466-39-3P	467466-40-6P	467466-41-7P	467466-42-8P
	467466-43-9P	467466-44-0P	467466-45-1P	467466-46-2P	467466-47-3P
	467466-48-4P	467466-49-5P	467466-50-8P	467466-51-9P	467466-52-0P
	467466-53-1P	467466-54-2P	467466-55-3P	467466-56-4P	467466-57-5P
	467466-58-6P	467466-59-7P	467466-60-0P	467466-61-1P	467466-62-2P
	467466-63-3P	467466-64-4P	467466-65-5P	467466-66-6P	467466-67-7P
	467466-68-8P	467466-69-9P	467466-70-2P	467466-71-3P	467466-72-4P
	467466-73-5P	467466-74-6P	467466-75-7P	467466-76-8P	

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prodn. of aminohydroxyphenylacrylamide deriv. developers for oxidative hair dyes)

IT 72-18-4, L-Valine, reactions 75-04-7, Ethylamine, reactions 75-31-0, Isopropylamine, reactions 96-20-8, 2-Amino-1-butanol 99-57-0, 2-Amino-4-nitrophenol 107-10-8, Propylamine, reactions 107-11-9, Allylamine 107-15-3, Ethylenediamine, reactions 109-01-3 109-83-1, 2-(Methylamino)ethanol 109-85-3, 2-Methoxyethylamine 110-73-6, 2-(Ethylamino)ethanol 110-91-8, Morpholine, reactions 123-30-8, 4-Aminophenol 123-75-1, Pyrrolidine, reactions 498-63-5, Prolinol 616-30-8, 3-Amino-1,2-propanediol 617-89-0, Furfurylamine 765-30-0, Cyclopropylamine 917-54-4, Methylolithium 1001-53-2, N-Acetylenediamine 2038-03-1, 4-(2-Aminoethyl)morpholine 2605-67-6, Methoxycarbonylmethylenetriphenylphosphorane 2812-47-7, Prolinamide 3188-13-4, Chloromethyl ethyl ether 4214-76-0, 2-Amino-5-nitropyridine 4795-29-3, Tetrahydrofurfurylamine 5036-48-6, 1-(3-Aminopropyl)imidazole 5382-16-1, 4-Hydroxypiperidine 6168-72-5, 2-Aminopropanol 6638-79-5, N,O-Dimethylhydroxylamine hydrochloride 6859-99-0, 3-Hydroxypiperidine 7575-35-1, 4-[Bis(2-hydroxyethyl)amino]aniline 7663-77-6, 1-(3-Aminopropyl)-2-pyrrolidone 25739-59-7, 2-Amino-3-hydroxypropionamide 50610-33-8 54840-15-2, tert-Butyl N-(4-hydroxyphenyl)carbamate 68621-88-5, tert-Butyl 3-aminophenylcarbamate 71026-66-9, tert-Butyl 4-aminophenylcarbamate 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)-1H-pyrazole 325953-40-0 325953-41-1 325953-45-5 325953-46-6 325953-48-8 460084-09-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prodn. of aminohydroxyphenylacrylamide deriv. developers for oxidative hair dyes)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Henkel Kgaa; DE 19607751 A 1997 HCAPLUS

IT 79352-72-0, 4-Amino-2-(aminomethyl)phenol 110952-46-0,

4-Amino-2-(2-hydroxyethylaminomethyl)phenol

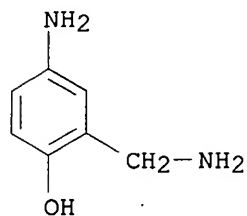
RL: TEM (Technical or engineered material use); USES (Uses)

(in oxidative hair dye compns. contg.

aminohydroxyphenylacrylamide deriv. developers)

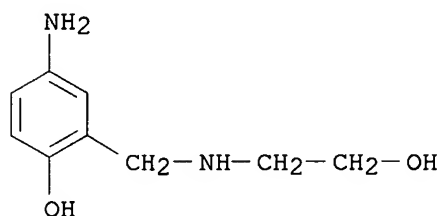
RN 79352-72-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)- (9CI) (CA INDEX NAME)



RN 110952-46-0 HCAPLUS

CN Phenol, 4-amino-2-[[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



L47 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:750510 HCAPLUS

DN 137:280569

TI Preparation of 2-(2-aminoethyl)-1,4-benzenediamines for use in the oxidative dyeing of keratin fibers

IN Chassot, Laurent; Braun, Hans-Juergen

PA Wella A.-G., Germany

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C07C211-51

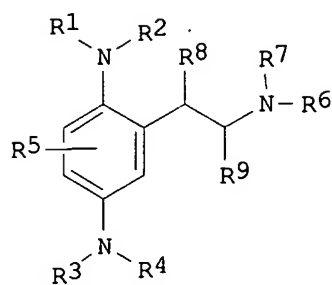
ICS C07C211-52; C07C211-53; C07C215-08; C07C217-00; D06P001-645; A61K007-13; C07C255-58

CC 40-6 (Textiles and Fibers)

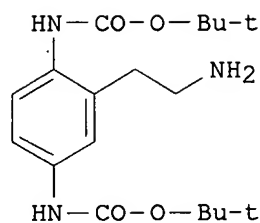
Section cross-reference(s): 25, 41

FAN.CNT 1

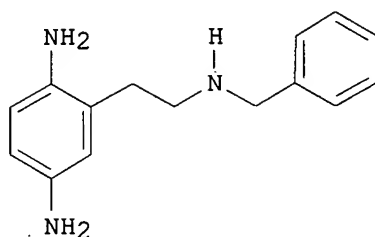
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10112506	A1	20021002	DE 2001-10112506	20010315
PRAI	DE 2001-10112506		20010315		
OS	MARPAT 137:280569				
GI					



I



II



III

- AB Title compds. I [R1-R4 = H, alkyl, hydroxyalkyl, etc.; R5 = H, halo, alkyl, etc.; R6, R7 = H, alkyl, alkene, etc.; R8, R9 = H, alkyl] were prepd. For example, NaBH(OAc)₃ mediated reductive amination of benzaldehyde with amine II, prepd. from 2-(2,5-diaminophenyl)ethanol sulfate in 2-steps, followed by amine deprotection, afforded benzenediamine III. In coloration studies of bleached hair, 29-examples of compds. I in combination with 4-dyeing developers resulted in a range of hair coloring, e.g., a prepn. of compd. III and 1,3-benzenediol produced the color blond.
- ST prepn benzenediamine keratin hair oxidative dye
- IT Hair preparations
(dyes; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)
- IT Hair preparations
Pigments, nonbiological
(prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)
- IT Keratins
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)
- IT 463935-72-0P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(**intermediate**; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)
- IT 463935-71-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(**intermediate**; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)
- IT 83-56-7, 1,5-Dihydroxynaphthalene 89-25-8, 3-Methyl-1-phenyl-5-pyrazolone 89-83-8, 5-Methyl-2-(1-methylethyl)phenol 91-56-5, 1H-Indole-2,3-dione 91-68-9, 3-Diethylaminophenol 92-44-4,

2,3-Dihydroxynaphthalene 99-07-0, 3-Dimethylaminophenol 108-45-2,
 1,3-Diaminobenzene, reactions 137-19-9, 1,5-Dichloro-2,4-
 dihydroxybenzene 141-86-6, 2,6-Diaminopyridine 533-31-3,
 3,4-Methylenedioxyphenol 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2,
 2,7-Dihydroxynaphthalene 619-05-6, 3,4-Diaminobenzoic acid 770-25-2,
 3-[(2-Hydroxyethyl)amino]phenol 1687-53-2, 5-Amino-2-methoxyphenol
 1953-54-4, 5-Hydroxyindole 2380-84-9, 7-Hydroxyindole 2380-86-1,
 6-Hydroxyindole 2380-94-1, 4-Hydroxyindole 3131-52-0,
 5,6-Dihydroxyindole 5349-76-8, 2,4-Diamino-1-methoxy-5-methylbenzene
 6201-65-6, 2-Chloro-1,3-dihydroxybenzene 6265-21-0, 3-[(2-
 Hydroxyethyl)amino]aniline 6941-70-4, 6-Bromo-1-hydroxy-3,4-
 methylenedioxybenzene 7228-00-4, 2-[(3-Hydroxyphenyl)amino]acetamide
 7469-77-4, 2-Methyl-1-naphthol 14268-66-7, 3,4-Methylenedioxyaniline
 16867-03-1, 2-Amino-3-hydroxypyridine 26011-57-4, 6-Amino-3,4-
 dihydro[1,4](2H)-benzoxazine 26021-57-8, 3,4-Dihydro-6-hydroxy-1,4(2H)-
 benzoxazine 28020-38-4, 2,3-Diamino-6-methoxypyridine 29539-03-5,
 5,6-Dihydroxyindoline 39489-79-7, 5-Amino-2,4-dichlorophenol
 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-[(2-Hydroxyethyl)amino]-
 2-methylphenol 61693-42-3, 3-Amino-2,4-dichlorophenol 70643-19-5,
 2,4-Diamino-1-(2-hydroxyethoxy)benzene 71500-41-9, 4-Amino-2-di[(2-
 hydroxyethyl)amino]-1-ethoxybenzene 71500-42-0, 3-[Di(2-
 hydroxyethyl)amino]aniline 75513-65-4, 1,3-Diamino-4-(2,3-
 dihydroxypropoxy)benzene 76045-64-2, 3-[(2-Aminoethyl)amino]aniline
 78661-33-3, 2-Amino-1-(2-hydroxyethoxy)-4-methylaminobenzene 80592-80-9,
 3-[(2,3-Dihydroxypropyl)amino]-2-methylphenol 80592-81-0,
 3-[(2-Hydroxyethyl)amino]-2-methylphenol 81892-72-0,
 1,3-Di(2,4-diaminophenoxy)propane 83763-47-7, 2-Amino-4-[(2-
 hydroxyethyl)amino]anisole 84540-48-7, 2,4-Diaminophenoxyacetic acid
 85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7,
 2-(4-Amino-2-hydroxyphenoxy)ethanol 90817-34-8, 3-Amino-6-methoxy-2-
 (methylamino)pyridine 94082-77-6, 2,4-Diamino-1,5-di(2-
 hydroxyethoxy)benzene 104752-50-3, 1-(2-Aminoethoxy)-2,4-diaminobenzene
 104752-51-4, 1,2-Dichloro-3,5-dihydroxy-4-methylbenzene 110102-86-8,
 5-Amino-4-chloro-2-methylphenol 111451-24-2, 2,6-Diamino-3,5-
 dimethoxypyridine 115423-86-4, 1,3-Diamino-2,4-dimethoxybenzene
 122455-85-0, 5-Amino-4-fluoro-2-methylphenol 122481-67-8,
 2,4-Di[(2-hydroxyethyl)amino]-1,5-dimethoxybenzene 137290-78-9,
 5-Amino-4-methoxy-2-methylphenol 137290-86-9, 5-[(2-Hydroxyethyl)amino]-
 4-methoxy-2-methylphenol 139443-57-5, 5-Amino-4-ethoxy-2-methylphenol
 141614-04-2, 2,4-Diamino-1-ethoxy-5-methylbenzene 141614-05-3,
 2,4-Diamino-1-(2-hydroxyethoxy)-5-methylbenzene 141922-20-5,
 2,4-Diamino-1-fluoro-5-methylbenzene 142082-56-2, 3-[(2-
 Methoxyethyl)amino]phenol 146658-65-3, 5-[(3-Hydroxypropyl)amino]-2-
 methylphenol 149330-25-6, 2,6-Bis(2-hydroxyethyl)aminotoluene
 168092-23-7, Di(2,4-diaminophenoxy)methane 207923-07-7,
 5-Amino-2-ethylphenol 244028-59-9, 5-[(2-Hydroxyethyl)amino]-1,3-
 benzodioxole

RL: COS (Cosmetic use); RCT (Reactant); BIOL (Biological study); RACT
 (Reactant or reagent); USES (Uses)

(prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling
 agents in oxidative hair dyes)

IT	463935-35-5P	463935-36-6P	463935-37-7P	463935-38-8P	463935-39-9P
	463935-40-2P	463935-41-3P	463935-42-4P	463935-43-5P	463935-44-6P
	463935-45-7P	463935-46-8P	463935-47-9P	463935-48-0P	463935-49-1P
	463935-50-4P	463935-51-5P	463935-52-6P	463935-53-7P,	
	N-[4-[(2-(2,5-Diaminophenyl)ethylamino)methyl]phenyl]acetamide				
	Hydrochloride	463935-54-8P	463935-55-9P	463935-56-0P	463935-57-1P
	463935-59-3P	463935-61-7P	463935-63-9P	463935-65-1P,	

2-[2-(2,5-Diaminophenyl)ethylamino]-5-nitrobenzoic acid Hydrochloride
463935-67-3P 463935-68-4P 463935-69-5P 463935-70-8P,

4-[2-(2,5-Diaminophenyl)ethylamino]-3-nitrobenzoic acid Hydrochloride
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(product; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in oxidative hair dyes)

IT 90-15-3, 1-Naphthalenol 95-88-5, 1-Chloro-2,4-dihydroxybenzene
97-51-8, 2-Hydroxy-5-nitrobenzaldehyde 98-03-3, 2-Thiophenecarboxaldehyde 100-10-7, 4-Dimethylaminobenzaldehyde
100-52-7, Benzaldehyde, reactions 106-50-3, 1,4-Diaminobenzene, reactions 107-82-4, 1-Bromo-3-methylbutane 108-46-3,
1,3-Dihydroxybenzene, reactions 109-65-9, 1-Bromobutane 120-57-0,
3,4-Methylenedioxybenzaldehyde 122-85-0, 4-Acetylamino-benzaldehyde
123-08-0, 4-Hydroxybenzaldehyde 123-30-8, 4-Aminophenol 350-46-9,
4-Fluoronitrobenzene 364-73-8, 5-Bromo-2-fluoronitrobenzene 364-74-9,
2,5-Difluoronitrobenzene 364-76-1 446-35-5, 2,4-Difluoronitrobenzene
453-71-4, 4-Fluoro-3-nitrobenzoic acid 498-62-4, Thiophen-3-aldehyde
500-22-1, Pyridin-3-aldehyde 555-16-8, 4-Nitrobenzaldehyde, reactions
587-04-2, 3-Chlorobenzaldehyde 591-27-5, 3-Aminophenol 608-25-3,
2-Methyl-1,3-dihydroxybenzene 615-50-9 872-85-5, 4-Pyridinecarboxaldehyde 1121-60-4, 2-Pyridinecarboxaldehyde 1493-27-2,
2-Fluoronitrobenzene 2043-61-0, Cyclohexane-1-aldehyde 2835-95-2,
5-Amino-2-methylphenol 2835-99-6, 3-Methyl-4-aminophenol 3446-89-7,
4-Methylsulfanylbzaldehyde 4701-17-1, 5-Bromothiophen-2-aldehyde
5697-02-9, 1-Acetoxy-2-methylnaphthalene 6203-18-5, 4-Dimethylaminozimtaldehyde 6921-22-8, 2,3-Difluoronitrobenzene 7304-32-7,
2-Fluoro-5-nitrobenzoic acid 18791-75-8, 4-Bromothiophen-2-aldehyde
24424-99-5, Di-tert-butylidicarbonate 51980-54-2, 4-Pyrrolidin-1-ylbenzaldehyde 70643-20-8, 1,3-Diamino-4-(2-hydroxyethoxy)benzene sulfate 83763-48-8 84540-50-1, 3-Amino-2-chloro-6-methylphenol 93841-25-9, 2-(2,5-Diaminophenyl)ethanol Sulfate **135043-64-0**,
4-Amino-2-aminomethylphenol dihydrochloride 155601-30-2 334884-86-5
463935-73-1 463935-74-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in **oxidative hair dyes**)

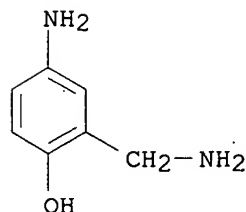
IT **135043-64-0**, 4-Amino-2-aminomethylphenol dihydrochloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; prepn. of 2-(2-aminoethyl)-1,4-benzenediamines for use as coupling agents in **oxidative hair dyes**)

RN 135043-64-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



2 HCl

L47 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:574886 HCAPLUS
DN 137:129538
TI Aminophenols as primary **intermediates** for oxidative coloration
of hair
IN Lim, Mu-Ill; Pan, Yuh-Guo
PA Clairol Incorporated, USA
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2

DT Patent
LA English
IC ICM A61K007-13
CC 62-3 (Essential Oils and Cosmetics)
Section cross-reference(s): 25
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058653	A1	20020801	WO 2002-US1532	20020118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002148052	A1	20021017	US 2002-52322	20020118
US 2001-263544P	P	20010123		

PI W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002148052 A1 20021017 US 2002-52322 20020118

PRAI US 2001-263544P P 20010123

OS MARPAT 137:129538

AB Primary **intermediates** for hair coloring compns. for oxidative dyeing of hair are 4-amino-2-(2 or 3-amino or substituted amino-Et or propyl) phenol compd. A hair dyeing compn. comprises, in a suitable carrier or vehicle, an effective hair dyeing amt. of at least one coupler and at least one aminophenol primary **intermediate**, and a developer compn. contg. one ore more oxidizing agents.

ST aminophenol deriv primary **intermediate** oxidative hair dye

IT Hair preparations
(dyes, oxidative; oxidative hair coloring compns. contg. aminophenols and other primary **intermediates**)

IT Oxidizing agents
(oxidative hair coloring compns. contg. aminophenols and other primary **intermediates**)

IT 90-15-3, Naphthalen-1-ol 95-55-6, 2-Aminophenol 95-70-5, 2-Methylbenzene-1,4-diamine 95-88-5, 4-Chlorobenzene-1,3-diol 106-50-3, Benzene-1,4-diamine, biological studies 108-45-2, Benzene-1,3-diamine, biological studies 108-46-3, Benzene-1,3-diol, biological studies 123-30-8, 4-Aminophenol 150-75-4, 4-Methylaminophenol 591-27-5, 3-Aminophenol 608-25-3, 2-Methyl-benzene-1,3-diol 1004-74-6, Pyrimidinetetramine 2380-86-1, 1H-Indol-6-ol 2835-95-2, 5-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 7469-77-4, 2-Methyl-naphthalen-1-ol 7575-35-1 7722-84-1, Hydrogen peroxide, biological studies 16867-03-1, 2-Aminopyridin-3-ol 17672-22-9, 2-Amino-6-methylphenol 26021-57-8, 3,4-Dihydro-2H-1,4-benzoxazin-6-ol 41927-22-4, 4-Methyl-2-phenyl-2,4-dihydro-3H-pyrazol-3-one 53222-92-7,

3-Amino-2-methylphenol 55302-96-0, 5-(2-Hydroxyethylamino)-2-methylphenol 70643-19-5, 2-(2,4-Diamino-phenoxy)-ethanol 83763-47-7
93841-24-8, 2-(2,5-Diamino-phenyl)-ethanol 94082-77-6 129697-50-3
131311-66-5 155601-17-5 157469-54-0 220264-60-8 307493-94-3,
3-(2,4-Diaminophenoxy)-propan-1-ol 329320-36-7

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair coloring compns. contg. aminophenols and other primary intermediates)

IT 289041-27-6P 444178-42-1P 444178-43-2P
444178-44-3P 444178-45-4P 444178-46-5P
444178-47-6P 444178-48-7P 444178-49-8P
444178-50-1P 444178-51-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair coloring compns. contg. aminophenols and other primary intermediates)

IT 119-84-6, 3,4-Dihydrocoumarin 553-86-6, 2-Coumaranone
RL: RCT (Reactant); RACT (Reactant or reagent)

(oxidative hair coloring compns. contg. aminophenols and other primary intermediates)

IT 20920-99-4P 21997-23-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oxidative hair coloring compns. contg. aminophenols and other primary intermediates)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

(1) de La Mettrie; US 5976195 A 1999 HCAPLUS

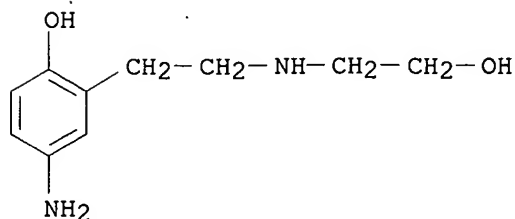
IT 289041-27-6P 444178-42-1P 444178-43-2P
444178-44-3P 444178-45-4P 444178-47-6P
444178-48-7P 444178-49-8P 444178-50-1P
444178-51-2P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxidative hair coloring compns. contg. aminophenols and other primary intermediates)

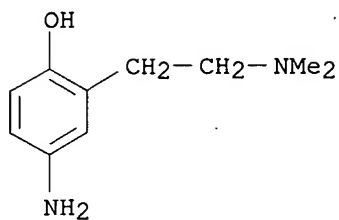
RN 289041-27-6 HCAPLUS

CN Phenol, 4-amino-2-[2-[(2-hydroxyethyl)amino]ethyl]- (9CI) (CA INDEX NAME)



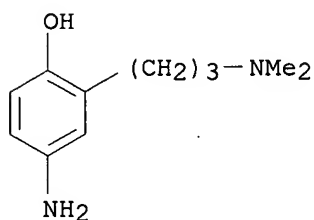
RN 444178-42-1 HCAPLUS

CN Phenol, 4-amino-2-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



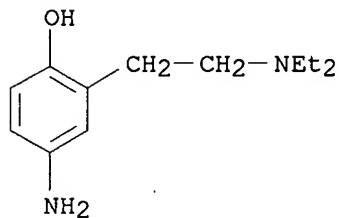
RN 444178-43-2 HCAPLUS

CN Phenol, 4-amino-2-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



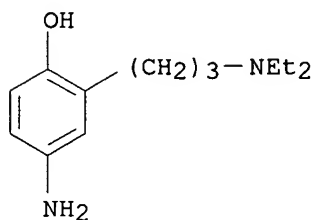
RN 444178-44-3 HCAPLUS

CN Phenol, 4-amino-2-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



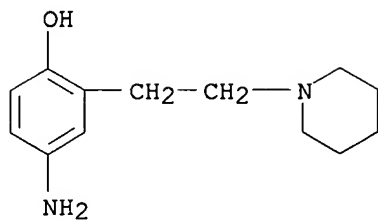
RN 444178-45-4 HCAPLUS

CN Phenol, 4-amino-2-[3-(diethylamino)propyl]- (9CI) (CA INDEX NAME)



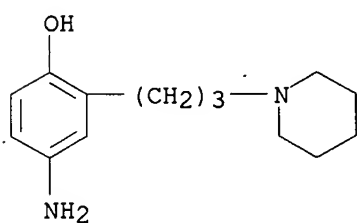
RN 444178-47-6 HCAPLUS

CN Phenol, 4-amino-2-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)



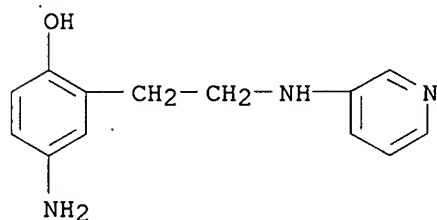
RN 444178-48-7 HCAPLUS

CN Phenol, 4-amino-2-[3-(1-piperidinyl)propyl]- (9CI) (CA INDEX NAME)



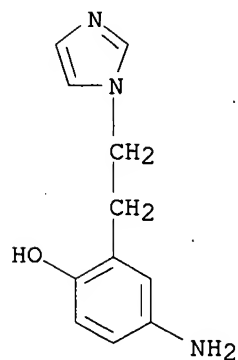
RN 444178-49-8 HCAPLUS

CN Phenol, 4-amino-2-[2-(3-pyridinylamino)ethyl]- (9CI) (CA INDEX NAME)



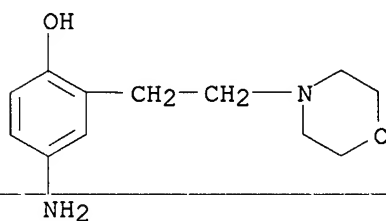
RN 444178-50-1 HCAPLUS

CN Phenol, 4-amino-2-[2-(1H-imidazol-1-yl)ethyl]- (9CI) (CA INDEX NAME)



RN 444178-51-2 HCAPLUS

CN Phenol, 4-amino-2-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



L47 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:391278 HCAPLUS

DN 136:390726

TI Enzymatic hair-coloring agent

IN Kleen, Astrid; Saettler, Andrea; Hoeffkes, Horst; Maurer, Karl-Heinz

PA Henkel Kgaa, Germany

SO Ger. Offen., 20 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-13

ICS C12N009-00

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10057545	A1	20020523	DE 2000-10057545	20001120
PRAI	DE 2000-10057545		20001120		
AB	The subject of the present invention pertains to the dyeing of keratinic fibers, including in a cosmetically acceptable carrier at least one dye intermediate and at least one phenol-oxidizing enzyme, which can be obtained from fungi such as Acremonium. The agents according to invention are characterized by their good coloring achievement as well as by their gentle effect upon the hair.				
ST	hair dye enzyme Acremonium				
IT	Surfactants (amphoteric; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)				
IT	Hair preparations (dyes, oxidative; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)				
IT	Hair preparations (dyes; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)				
IT	Keratins RL: BSU (Biological study, unclassified); BIOL (Biological study) (fibers; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)				
IT	Acremonium Acremonium murorum Acremonium murorum murorum (hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)				

IT Enzymes, biological studies
RL: BSU (Biological study, unclassified); COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

IT Surfactants
(nonionic; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

IT 108-95-2, Phenol, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study) (enzymes oxidizing; hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

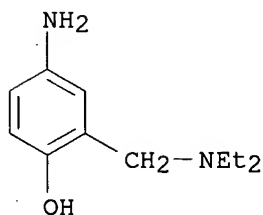
IT 9002-10-2P, Phenol oxidase
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); COS (Cosmetic use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

IT 74-79-3, Arginine, biological studies 95-88-5, 4-Chlororesorcin
108-46-3, Resorcin, biological studies 120-72-9, Indole, biological studies 120-72-9D, Indole, derivs. 141-43-5, Monoethanolamine, biological studies 496-73-1, 4-Methylresorcin 591-27-5, 3-Aminophenol 615-50-9 2380-86-1, 6-Hydroxyindole 2784-89-6, HC Red 1 2835-99-6, 3-Methyl-4-aminophenol 3131-52-0, 5,6-Dihydroxyindole **6297-14-9**, 4-Amino-2-((diethylamino)methyl)phenol dihydrochloride 6358-09-4, 2-Amino-4-nitro-6-chlorophenol 16867-03-1, 2-Amino-3-hydroxypyridine 41959-35-7, 1,2,3,4-Tetrahydro-6-nitroquinoxaline 55302-96-0 56932-44-6, HC Yellow 5 61693-43-4 74918-21-1 117907-43-4, 4-Amino-2-nitrodiphenylamine-2'-carboxylic acid **135043-64-0**, 4-Amino-2-aminomethylphenol dihydrochloride
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

IT **6297-14-9**, 4-Amino-2-((diethylamino)methyl)phenol dihydrochloride **135043-64-0**, 4-Amino-2-aminomethylphenol dihydrochloride
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair-coloring agent employing a phenol-oxidizing enzyme from Acremonium)

RN 6297-14-9 HCAPLUS

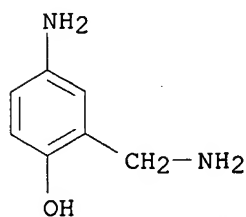
CN Phenol, 4-amino-2-[(diethylamino)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



2 HCl

RN 135043-64-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L47 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:256016 HCAPLUS

DN 136:284164

TI Oxidative hair dyes containing 2-amino-5-methylphenol

IN Hoeffkes, Horst; Oberkobusch, Doris; Erkens, Udo; Meinigke, Bernd

PA Henkel Kommanditgesellschaft auf Aktien, Germany

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA German

IC ICM A61K007-13

CC 62-3 (Essential Oils and Cosmetics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002026201	A2	20020404	WO 2001-EP10851	20010920
	WO 2002026201	A3	20020704		
	W: AU, BR, CA, CN, CZ, HU, JP, NO, PL, RU, SK, US, VN				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10048733	A1	20020418	DE 2000-10048733	20000929
	AU 2001095575	A5	20020408	AU 2001-95575	20010920
PRAI	DE 2000-10048733	A	20000929		
	WO 2001-EP10851	W	20010920		

OS MARPAT 136:284164

AB The invention relates to agents for dyeing keratinous fibers, esp. hair contg. the following dye **intermediates** in a cosmetically acceptable medium: (A) 2-amino-5-methylphenol; (B) at least one p-aminophenol deriv.; and (C) at least one coupler component, selected from the following: (c1) the m-aminophenol derivs. and (c2) the pyridine derivs. The inventive agents produce particularly intensive orange colors with excellent fastness characteristics and are also characterized by their extremely good toxicol. characteristics. Thus a compn. contained (wt./wt.%): Hydrenol D 8.5; Lorol 2.0; Eumulgin B 0.75; Texapon NSO 20.0; Dehyton K 12.5; sodium sulfite 0.5; ammonium sulfate 0.4; 2-amino-5-methylphenol 0.18; 4-amino-3-methylphenol 0.37; 3-aminophenol 0.16; ammonia (25%) to pH10; propylene glycol 2.0; water to 100.

ST oxidative hair dye amino methylphenol

IT Hair preparations

(dyes, oxidative; oxidative hair dyes contg. 2-amino-5-methylphenol)

IT Dyes

(oxidative hair dyes contg. 2-amino-5-methylphenol)

IT 91-68-9, 3-(Diethylamino)phenol 110-86-1D, Pyridine, derivs. 120-37-6,
3-Ethylamino-4-methylphenol 123-30-8, p-Aminophenol 123-30-8D,
p-Aminophenol, derivs. 141-86-6, 2,6-Diaminopyridine 150-75-4,
N-Methyl-p-Aminophenol 399-95-1, 4-Amino-3-fluorophenol 399-96-2,
4-Amino-2-fluorophenol 591-27-5D, 3-Aminophenol, derivs. 609-21-2,
2,6-Dibromo-4-aminophenol 626-06-2, 2,6-Dihydroxypyridine 2835-95-2,
5-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6,
4-Amino-3-methylphenol 3964-52-1, 4-Amino-2-chlorophenol 4664-16-8,
2,6-Dihydroxy-4-methylpyridine 5930-28-9; 2,6-Dichloro-4-aminophenol
6994-64-5, 2,6-Dimethyl-3-aminophenol 7722-84-1, Hydrogen peroxide,
biological studies 16867-03-1, 2-Amino-3-hydroxypyridine 28020-38-4,
2,3-Diamino-6-methoxypyridine 29785-47-5, 4-Amino-2-methoxymethylphenol
40966-87-8, 3-Pyridinol, 2-amino-5-chloro- **51387-92-9**, Phenol,
4-amino-2-[(diethylamino)methyl]- 55302-96-0, 5-(2-Hydroxyethyl)amino-2-
methylphenol 61693-42-3, 2,4-Dichloro-3-aminophenol **79352-72-0**
, 4-Amino-2-aminomethylphenol 84540-47-6, 2,6-Dihydroxy-3,4-
dimethylpyridine 84540-50-1, 3-Amino-2-chloro-6-methylphenol
85679-78-3, 3,5-Diamino-2,6-dimethoxypyridine 86817-42-7 90817-34-8,
3-Amino-2-methylamino-6-methoxypyridine 104333-09-7,
4-Amino-2-hydroxymethylphenol 104903-49-3 110102-86-8,
5-Amino-4-chloro-2-methylphenol **110952-46-0** 137290-78-9,
5-Amino-4-methoxy-2-methylphenol 168202-61-7, 4-Amino-3-
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215323-01-6 373382-96-8

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dyes contg.

2-amino-5-methylphenol)

IT **51387-92-9**, Phenol, 4-amino-2-[(diethylamino)methyl]-
79352-72-0, 4-Amino-2-aminomethylphenol **110952-46-0**

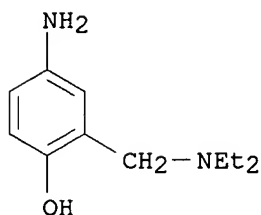
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(oxidative hair dyes contg.

2-amino-5-methylphenol)

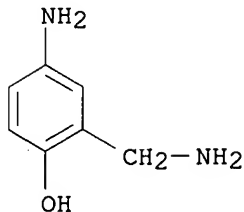
RN 51387-92-9 HCAPLUS

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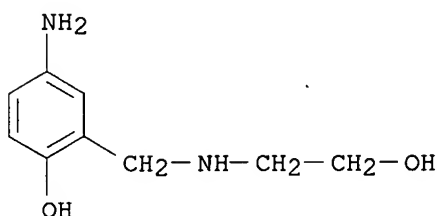


RN 79352-72-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)- (9CI) (CA INDEX NAME)



RN 110952-46-0 HCAPLUS
 CN Phenol, 4-amino-2-[[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)

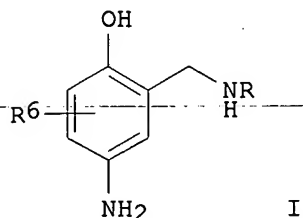


L47 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:171639 HCAPLUS
 DN 136:236658
 TI Primary **intermediates** for oxidative coloration of hair
 comprising arylaminomethylaminophenols
 IN Pan, Yuh-guo; Lim, Mu-ill
 PA Bristol-Myers Squibb Company, USA
 SO PCT Int. Appl., 54 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and Cosmetics)
 Section cross-reference(s): 25

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002017866	A1	20020307	WO 2001-US25554	20010815
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001088261	A5	20020313	AU 2001-88261	20010815
	EP 1331918	A1	20030806	EP 2001-967982	20010815
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	US 2002144355	A1	20021010	US 2001-930651	20010816

US 6562080 B2 20030513
PRAI US 2000-229182P P 20000830
WO 2001-US25554 W 20010815
OS MARPAT 136:236658
GI



AB Primary **intermediates** useful hair coloring systems comprise 2-arylaminomethyl-4-aminophenols. The invention provides new 2-arylaminomethyl-4-aminophenol compds. of I wherein R is a moiety selected from formulas (a), (b) or (c) wherein R1, R2, R3, R4 and R5 are each independently selected from a hydrogen atom, a halogen atom, a hydroxy group, an amino group, a C1-6 alkyl or haloalkyl group, a C1-6 alkoxy or haloalkoxy group, and a nitrile group, and R6 is a hydrogen atom, a halogen atom, a C1-4 alkyl or a C1-4 alkoxy group. Formulation of a hair dye contg. a 4-(5-amino-2-hydroxybenzylamino)-benzonitrile, 2-aminophenol, and resorcinol is disclosed.

ST oxidative hair coloration arylaminomethyl aminophenol

IT Hair preparations
(dyes, oxidative; primary **intermediates** for oxidative coloration of hair comprising arylaminomethylaminophenols)

IT Oxidizing agents
(primary **intermediates** for oxidative coloration of hair comprising arylaminomethylaminophenols)

IT 90-15-3, Naphthalen-1-ol 95-70-5, 2-MethylBenzene-1,4-diamine 95-88-5, 4-ChloroBenzene-1,3-diol 106-50-3, Benzene-1,4-diamine, biological studies 108-46-3, Benzene-1,3-diol, biological studies 123-30-8, 4-Aminophenol 591-27-5 608-25-3 1004-74-6, Pyrimidinetetramine 2380-86-1, 1H-Indol-6-ol 2835-95-2 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-Methylphenol 7469-77-4, 2-Methylnaphthalen-1-ol 16867-03-1, 2-Aminopyridin-3-ol 17672-22-9, 2-Amino-6-methylphenol 26021-57-8, 3,4-Dihydro-2H-1,4-benzoxazin-6-ol 41927-22-4 53222-92-7 55302-96-0 70643-19-5 93841-24-8, 2-(2,5-Diamino-phenyl)-ethanol 94082-77-6 129697-50-3 155601-17-5 220264-60-8 307493-94-3 329320-36-7 402940-52-7 402940-53-8 402940-54-9 402940-55-0 402940-56-1 402940-57-2 402940-58-3 402940-59-4 402940-60-7 402940-61-8 402940-62-9 402940-63-0 402940-64-1 402940-65-2 402940-66-3 402940-67-4 402940-68-5 402940-69-6 402940-70-9 402940-71-0 402940-72-1 402940-73-2 402940-74-3 402940-75-4 402940-76-5 402940-77-6 402940-78-7 402940-79-8 402940-80-1 402940-81-2 402940-82-3 402940-83-4 402940-84-5 402940-85-6 402940-86-7 402940-87-8 402940-88-9 402940-89-0

402940-90-3 402940-91-4 402940-92-5
402940-93-6 402940-94-7 402940-95-8
402940-96-9 402940-97-0 402940-98-1
402940-99-2 402941-00-8

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(primary **intermediates** for **oxidative**
coloration of **hair** comprising
arylaminomethylaminophenols)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

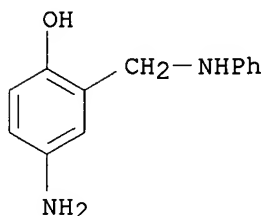
(1) Clausen; US 4797130 A 1989 HCAPLUS

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RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(primary **intermediates** for **oxidative**
coloration of **hair** comprising
arylaminomethylaminophenols)

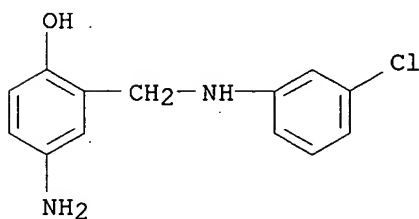
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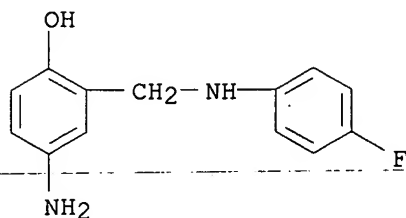
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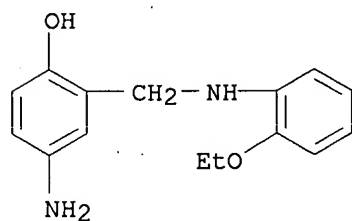
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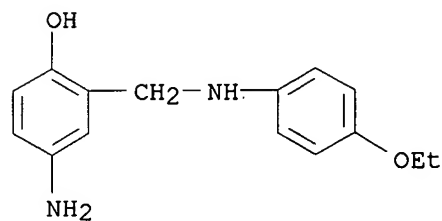
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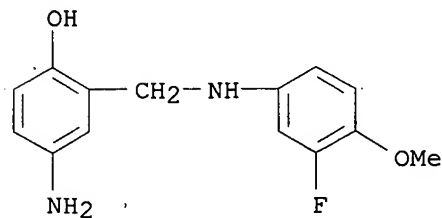
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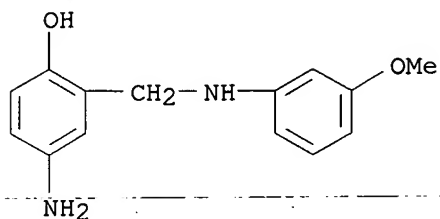
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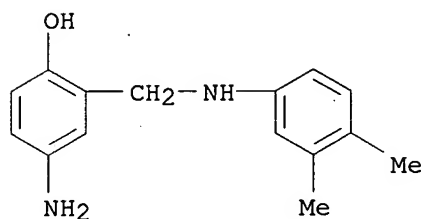
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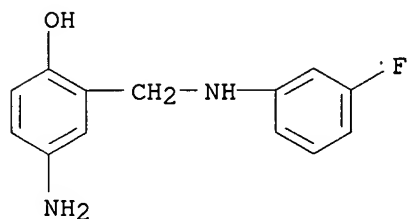
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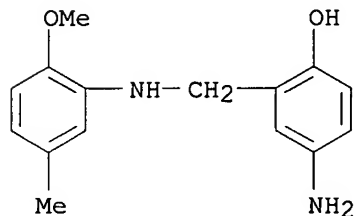
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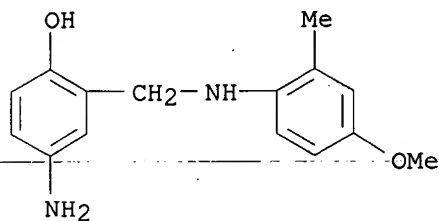
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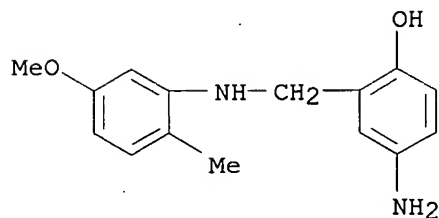
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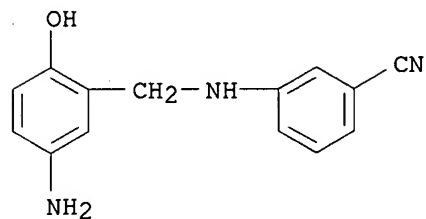
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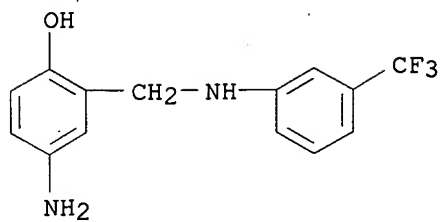
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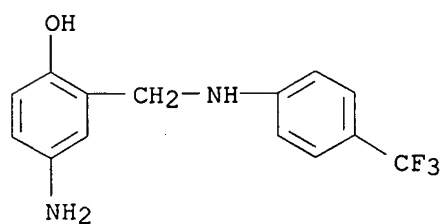
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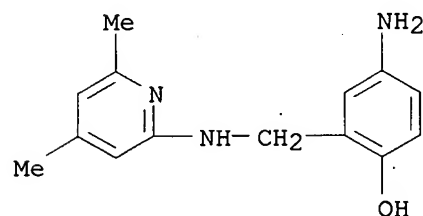
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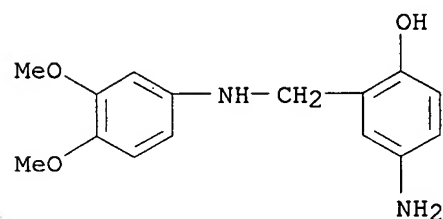
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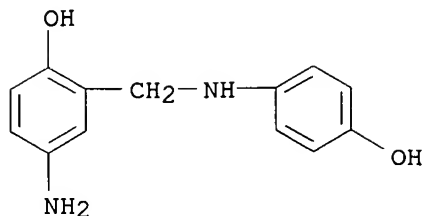
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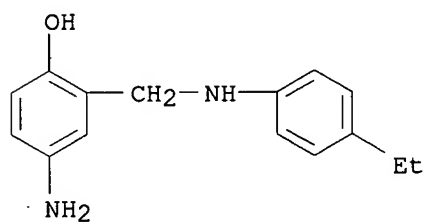
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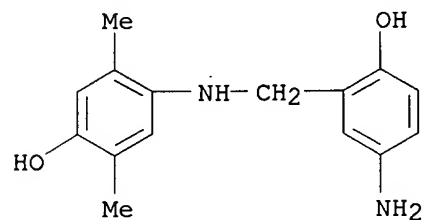


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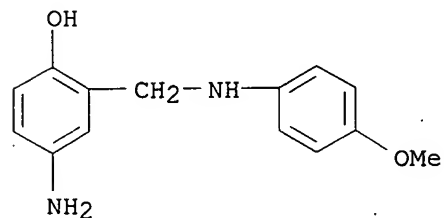


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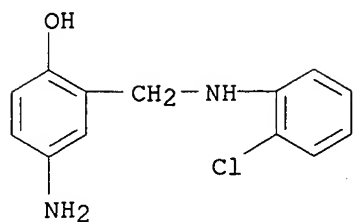
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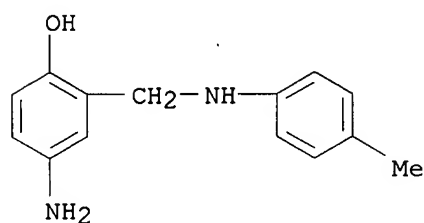
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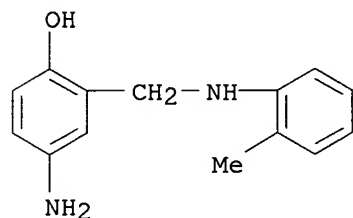
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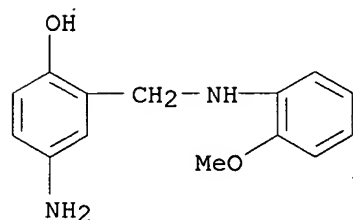
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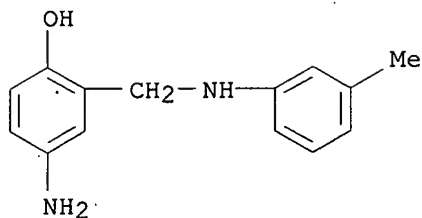
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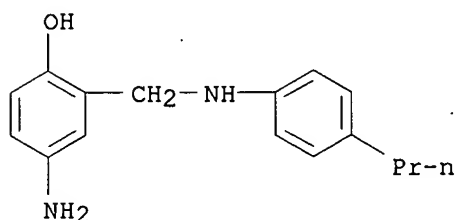


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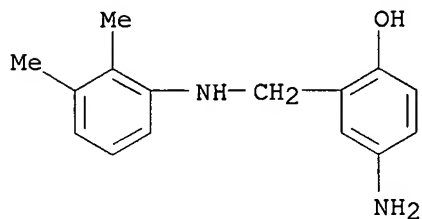
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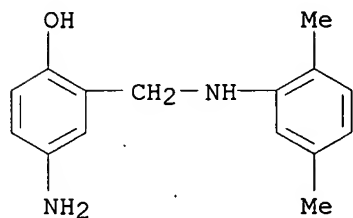
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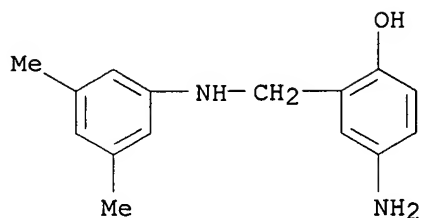
RN 402940-79-8 HCAPLUS
CN Phenol, 4-amino-2-[[(2,3-dimethylphenyl)amino]methyl]- (9CI) (CA INDEX NAME)



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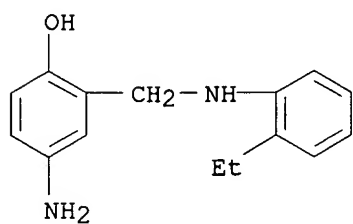


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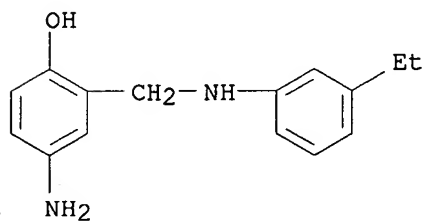
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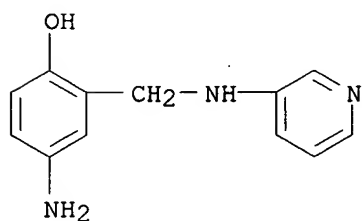
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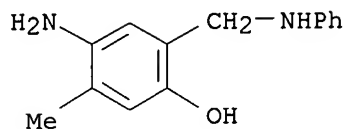
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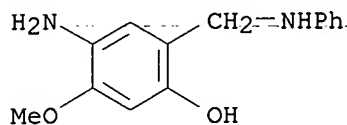
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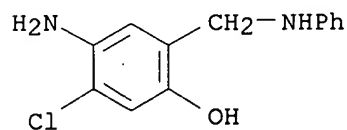
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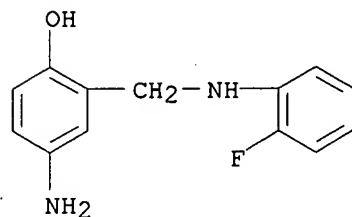
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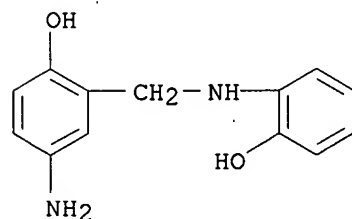
RN 402940-88-9 HCAPLUS

CN Phenol, 4-amino-2-[[2-fluorophenyl]amino]methyl]- (9CI) (CA INDEX NAME)



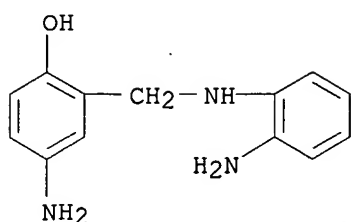
RN 402940-89-0 HCAPLUS

CN Phenol, 4-amino-2-[[2-hydroxyphenyl]amino]methyl]- (9CI) (CA INDEX NAME)



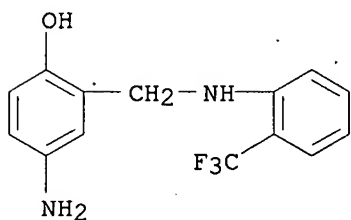
RN 402940-90-3 HCAPLUS

CN Phenol, 4-amino-2-[[2-aminophenyl]amino]methyl]- (9CI) (CA INDEX NAME)



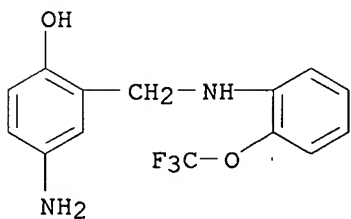
RN 402940-91-4 HCAPLUS

CN Phenol, 4-amino-2-[[[2-(trifluoromethyl)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



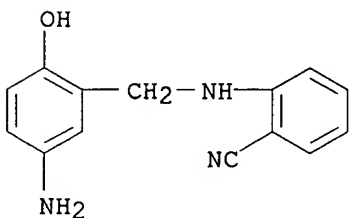
RN 402940-92-5 HCAPLUS

CN Phenol, 4-amino-2-[[[2-(trifluoromethoxy)phenyl]amino]methyl]- (9CI) (CA INDEX NAME)



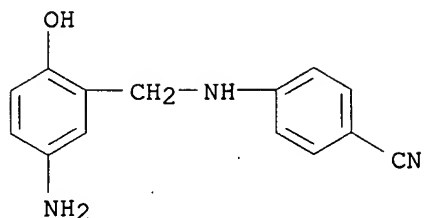
RN 402940-93-6 HCAPLUS

CN Benzonitrile, 2-[[[(5-amino-2-hydroxyphenyl)methyl]amino]- (9CI) (CA INDEX NAME)



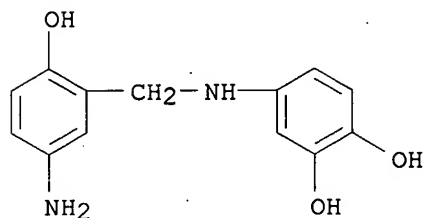
RN 402940-94-7 HCAPLUS

CN Benzonitrile, 4-[[[(5-amino-2-hydroxyphenyl)methyl]amino]- (9CI) (CA INDEX NAME)



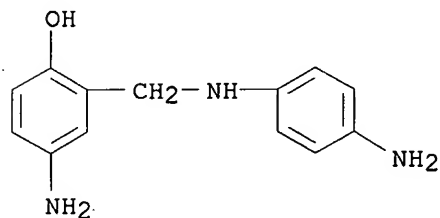
RN 402940-95-8 HCAPLUS

CN 1,2-Benzenediol, 4-[[[(5-amino-2-hydroxyphenyl)methyl]amino]- (9CI) (CA INDEX NAME)



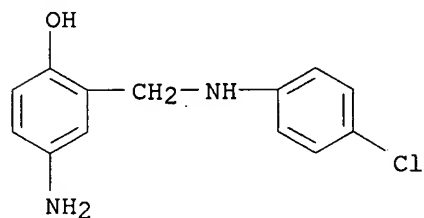
RN 402940-96-9 HCAPLUS

CN Phenol, 4-amino-2-[[[(4-aminophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



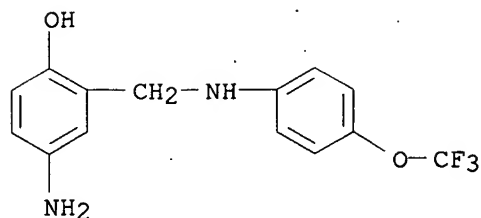
RN 402940-97-0 HCAPLUS

CN Phenol, 4-amino-2-[[[(4-chlorophenyl)amino]methyl]- (9CI) (CA INDEX NAME)



RN 402940-98-1 HCAPLUS

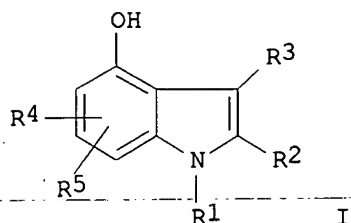
CN Phenol, 4-amino-2-[[[(4-(trifluoromethoxy)phenyl)amino]methyl]- (9CI) (CA INDEX NAME)



L47 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2000:209676 HCAPLUS
 DN 132:238364
 TI Cationic 4-hydroxyindoles and their use in oxidative dyeing of hair
 IN Terranova, Eric; Lagrange, Alain; Fadli, Aziz
 PA L'oreal, Fr.
 SO Eur. Pat. Appl., 17 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 IC ICM C07D401-06
 ICS A61K007-13; C07D401-14; C07D209-14; C07D209-42
 CC 41-5 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
 Section cross-reference(s): 28, 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 989128	A1	20000329	EP 1999-402147	19990830
	EP 989128	B1	20010321		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2783520	A1	20000324	FR 1998-11751	19980921
	FR 2783520	B1	20001110		
	AT 199904	E	20010415	AT 1999-402147	19990830
	ES 2157683	T3	20010816	ES 1999-402147	19990830
	ZA 9905770	A	20000329	ZA 1999-5770	19990908
	AU 9947551	A1	20000406	AU 1999-47551	19990913
	AU 719623	B2	20000511		
	MX 9908445	A	20001031	MX 1999-8445	19990914
	BR 9904652	A	20001114	BR 1999-4652	19990917
	CN 1248577	A	20000329	CN 1999-120324	19990920
	KR 2000023311	A	20000425	KR 1999-40444	19990920
	JP 2000136189	A2	20000516	JP 1999-265221	19990920
	RU 2190602	C2	20021010	RU 1999-120693	19990920
	JP 2002308871	A2	20021023	JP 2002-87653	19990920
	US 6306181	B1	20011023	US 1999-400818	19990921
	US 2002032937	A1	20020321	US 2001-925010	20010809
	US 2003019050	A9	20030130		
	US 6528650	B2	20030304		
PRAI	FR 1998-11751	A	19980921		
	JP 1999-265221	A3	19990920		
	US 1999-400818	A1	19990921		
OS	MARPAT 132:238364				
GI					



- AB Cationic derivs. of the 4-hydroxyindoles (I; R1 = cationic group, optionally substituted alkyl; R2, R3 = H, halogen, cationic group, alkyl, carboxy, alkoxy, carbonyl, formyl; R4, R5 = H, halogen, cationic group, alkyl, alkoxy, acetylmino, substituted alkyl, thiophenyl, furanyl, optionally substituted Ph or aralkyl) are combined with oxidative bases (couplers) in the form of arom. amines or phenols to provide oxidative hair dyes. The dyes have improved fastness and application properties. In an example, in 2-methyl-2-propanol, 3-pyridinecarboxaldehyde was condensed with 1-methyl-1,5,6,7-tetrahydro-4-indolone to give 1-methyl-5-(3-pyridylmethyl)-1H-indol-4-ol, which was then quaternized to give the methosulfate. This compd. could then be combined with 2-(.beta.-acetamidoethoxy)-p-phenylenediamine to give a blue hair dye.
- ST hydroxyindole cationic deriv oxidative hair dye
- IT Hair preparations
(dyes, oxidative; hydroxyindole cationic derivs. for use in oxidative hair dyes)
- IT 90-15-3, 1-Naphthol 92-65-9 93-05-0, N,N-Diethyl-1,4-phenylenediamine
95-55-6, 2-Aminophenol 95-70-5, 2-Methyl-1,4-phenylenediamine 95-88-5,
4-Chloro-1,3-dihydroxybenzene 99-98-9, N,N-Dimethyl-1,4-phenylenediamine
101-54-2 106-50-3, 1,4-Benzenediamine, uses 108-45-2,
1,3-Benzenediamine, uses 108-46-3, 1,3-Benzenediol, uses 123-30-8,
p-Aminophenol 148-71-0 399-95-1, 4-Amino-3-fluorophenol 399-96-2,
4-Amino-2-fluorophenol 533-31-3, Sesamol 537-65-5 591-27-5,
3-Aminophenol 608-25-3, 1,3-Dihydroxy-2-methylbenzene 615-66-7,
2-Chloro-1,4-phenylenediamine 1630-11-1, 2,6-Diethyl-1,4-
phenylenediamine 2359-52-6 2359-53-7 2380-86-1, 6-Hydroxyindole
2380-94-1, 4-Hydroxyindole 2835-95-2, 5-Amino-2-methylphenol
2835-96-3, 4-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol
2835-99-6, 4-Amino-3-methylphenol 4664-16-8, 2,6-Dihydroxy-4-
methylpyridine 4770-37-0, 6-Hydroxyindoline 5306-96-7,
2,3-Dimethyl-1,4-phenylenediamine 5862-80-6 6393-01-7,
2,5-Dimethyl-1,4-phenylenediamine 7218-02-2, 2,6-Dimethyl-1,4-
phenylenediamine 7556-37-8, 4-Hydroxy-1-methylindole 7575-35-1
14791-78-7 17672-22-9, 2-Amino-6-methylphenol 29785-47-5,
4-Amino-2-(methoxymethyl)phenol 55302-96-0 63969-43-7 70643-19-5
73793-80-3 **79352-72-0**, 4-Amino-2-(aminomethyl)phenol
81892-72-0 83763-47-7 93841-24-8 97902-52-8 104333-09-7,
4-Amino-2-(hydroxymethyl)phenol 105293-89-8, N,N-Dipropyl-1,4-
phenylenediamine 105607-68-9 **110952-46-0** 126335-43-1
128729-30-6 129697-50-3, 5-Acetamido-2-aminophenol 130582-53-5
135855-34-4 135855-35-5 157587-61-6 168202-61-7,
4-Amino-3-(hydroxymethyl)phenol 207568-58-9 232284-09-2 232284-14-9
262285-68-7

RL: TEM (Technical or engineered material use); USES (Uses)
(coupler with hydroxyindole cationic derivs. for use in
oxidative hair dyes)

IT 262285-26-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(hydroxyindole cationic derivs. for use in oxidative hair dyes)

IT 262285-28-9 262285-30-3 262285-32-5 262285-34-7 262285-36-9
262285-39-2 262285-42-7 262285-45-0 262285-47-2 262285-49-4
262285-51-8 262285-53-0 262285-55-2 262285-57-4 262285-59-6
262285-61-0 262285-63-2 262285-65-4 262285-66-5 262285-67-6

RL: TEM (Technical or engineered material use); USES (Uses)
(hydroxyindole cationic derivs. for use in oxidative hair dyes)

IT 131628-57-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)

(**intermediate**; prepn. of hydroxyindole cationic derivs. for
use in oxidative hair dyes)

IT 77-78-1, Dimethyl sulfate

RL: RCT (Reactant); RACT (Reactant or reagent)
(quaternizing agent; prepn. of hydroxyindole cationic derivs. for use
in oxidative hair dyes)

IT 500-22-1, 3-Pyridinecarboxaldehyde 51471-08-0

RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of hydroxyindole cationic derivs. for use in
oxidative hair dyes)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

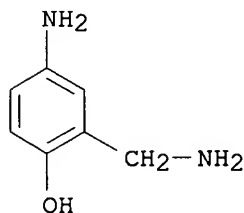
- (1) L'Oreal; EP 0428441 A 1991 HCAPLUS
- (2) L'Oreal; EP 0446131 A 1991 HCAPLUS
- (3) L'Oreal; EP 0850638 A 1998 HCAPLUS
- (4) L'Oreal Sa; FR 2736640 A 1997 HCAPLUS

IT 79352-72-0, 4-Amino-2-(aminomethyl)phenol 110952-46-0

RL: TEM (Technical or engineered material use); USES (Uses)
(coupler with hydroxyindole cationic derivs. for use in
oxidative hair dyes)

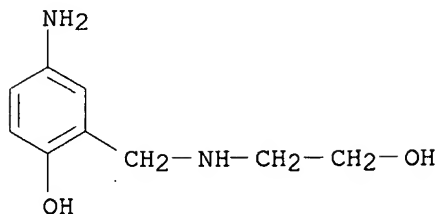
RN 79352-72-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)- (9CI) (CA INDEX NAME)



RN 110952-46-0 HCAPLUS

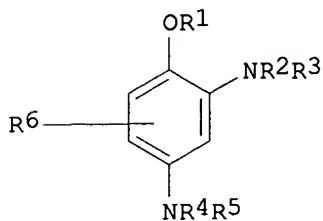
CN Phenol, 4-amino-2-[[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



L47 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 1999:796126 HCAPLUS
 DN 132:13105
 TI Preparation of 2,4-diaminophenol-derivative oxidative dye
intermediates and their use in hair dye formulations
 IN Akram, Mustafa; Wolff, Wolfgang; Kleen, Astrid
 PA Schwarzkopf G.m.b.H. Hans, Germany
 SO Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 IC ICM C07D309-06
 ICS C07C217-82; C07C215-76; A61K007-13; D06P003-10
 CC 41-9 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic
 Sensitizers)
 Section cross-reference(s): 27, 62

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19826457	A1	19991216	DE 1998-19826457	19980613
	WO 9965891	A1	19991223	WO 1999-EP3860	19990604
	W: AU, BR, CA, CN, CZ, HU, JP, NO, PL, RU, SK, US, VN				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9945064	A1	20000105	AU 1999-45064	19990604
PRAI	DE 1998-19826457	A	19980613		
	WO 1999-EP3860	W	19990604		
OS	MARPAT 132:13105				
GI					



I

AB The title compds. [I; R1 = (CH2)_nX; n = 2-4; X = satd. or unsatd. arom. 6- or 7-member ring contg up to 2 O or S or up to 3 N atoms, etc.; R2-R5 = H, (di)hydroxyalkyl, trihydroxyalkyl, (un)substituted aminoalkyl, haloalkyl; R6 = H, Me, Et, hydroxyalkyl, halogen; such that .gtoreq.1 of R1-R5 = H],

useful as the oxidative dye coupling component for hair dye formulations, are prepd. and I-contg. hair dye formulations presented. Thus, 1-chloro-2,4-dinitrobenzene was reacted with 2-(hydroxymethyl)tetrahydropyran in the presence of aq. NaOH, the **intermediate** 1-(tetrahydropyran-2-ylmethoxy)-2,4-dinitrobenzene hydrogenated to the corresponding diamine, and salified with HCl(g), producing gray powd. 1-(tetrahydropyran-2-ylmethoxy)-2,4-diaminobenzene dihydrochloride (m.p. 154.degree.).

ST diaminophenol prepn hair dye **intermediate**; oxidative dye prepn diaminophenol deriv

IT Phenols, preparation

Phenols, preparation

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(amino, 2,4-diaminophenol derivs.; prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT Hair preparations

(dyes, oxidative, 2,4-diaminophenol derivs.; prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT Amines, preparation

Amines, preparation

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(phenolic, 2,4-diaminophenol derivs.; prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT Hair

(prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT 83-56-7, 1,5-Dihydroxynaphthalene 90-15-3, 1-Naphthol 95-55-6, 2-Aminophenol 95-70-5 95-88-5, 4-Chloro-1,3-dihydroxybenzene 106-50-3, 1,4-Benzenediamine, reactions 108-46-3, 1,3-Benzenediol, reactions 123-30-8, p-Aminophenol 488-87-9, 2,5-Dimethylresorcinol 504-15-4, 5-Methylresorcinol 575-38-2, 1,7-Dihydroxynaphthalene 582-17-2, 2,7-Dihydroxynaphthalene 591-27-5, 3-Aminophenol 608-25-3, 2-Methylresorcinol 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 1004-75-7, 4-Hydroxy-2,5,6-triaminopyrimidine 2835-95-2, 5-Amino-2-methylphenol 2835-99-6, 4-Amino-3-methylphenol 6201-65-6, 2-Chlororesorcinol 7575-35-1, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 22715-34-0, 2-Hydroxy-4,5,6-triaminopyrimidine 63969-46-0 **79352-72-0**, 2-Aminomethyl-4-aminophenol 84540-50-1, 3-Amino-2-chloro-6-methylphenol 93841-24-8, 2-(2,5-Diaminophenyl)ethanol 155601-17-5, 4,5-Diamino-1-(2-hydroxyethyl)pyrazole 251450-62-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(developing component; prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT 106774-37-2P 251457-86-0P

RL: BUU (Biological use, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates**)

and their use in hair dye formulations)

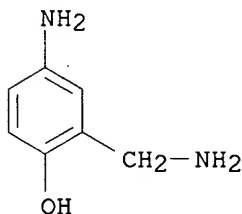
IT 97-00-7, 1-Chloro-2,4-dinitrobenzene 100-72-1, 2-(Hydroxymethyl)tetrahydropyran
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT 73839-69-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of 2,4-diaminophenol-deriv. oxidative dye **intermediates** and their use in hair dye formulations)

IT 79352-72-0, 2-Aminomethyl-4-aminophenol
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (developing component; prepn. of 2,4-diaminophenol-deriv. **oxidative dye intermediates** and their use in hair dye formulations)

RN 79352-72-0 HCAPLUS

CN Phenol, 4-amino-2-(aminomethyl)- (9CI) (CA INDEX NAME)



L47 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:761015 HCAPLUS

DN 132:6218

TI Oxidative hair dye compositions containing 1-(4-aminophenyl)-2-pyrrolidinemethanols

IN Lim, Mu-Ill; Popp, Margaret; Pan, Yuh-Guo

PA Bristol-Myers Squibb Company, USA

SO U.S., 11 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM A61K007-13

NCL 008409000

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 34

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5993491	A	19991130	US 1998-78264	19980513
	JP 11349564	A2	19991221	JP 1999-128536	19990510
	EP 962452	A1	19991208	EP 1999-201486	19990512
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	MX 9904400	A	20000331	MX 1999-4400	19990512
PRAI	US 1998-78264	A	19980513		
OS	MARPAT 132:6218				
AB	Compns. for the oxidative coloring of human hair contain as a novel				

primary dye **intermediate** a 1-(4-aminophenyl)-2-pyrrolidinemethanol, or a cosmetically acceptable salt. The compns. may also contain at least 1 other primary **intermediate** and conventional coupling compds., in addn. to an oxidizing agent and other components typically used in oxidative hair dye preps. A preferred dye **intermediate** in the compn. is (S)-1-(4-aminophenyl)-2-pyrrolidinemethanol (I) or cosmetically acceptable salts, which produce intense black colors when used in admixt. with a suitable coupling agents, such as 3-aminophenol, in conventional hair dye base formulations. Thus, 1-fluoro-4-nitrobenzene was treated with (S)-(+)-2-pyrrolidinemethanol and K₂CO₃ in DMF, and the resulting product was hydrogenated in the presence of 10% Pd on carbon in EtOH soln. to give I. Cocamidopropyl betaine 17, ethanolamine 2, oleic Acid 0.75, citric Acid 0.1, NH₄OH 5.0, behentrimonium chloride 0.5, Na₂SO₃ 0.1, EDTA 0.1, I 5 mmole, a coupler (e.g., 3-aminophenol) 5 mmole and water qs to 100%. The above compn. was mixed with 100 g of 20 vol. H₂O₂ and the mixt. was applied to piedmont hair or gray hair and permitted to remain in contact with hair for 30 min. Thus dyed hair was then shampooed and rinsed with water and dried.

ST oxidative hair dye aminophenylpyrrolidinemethanol prepn;
pyrrolidinemethanol aminophenyl oxidative hair dye prepn

IT Hair preparations

(dyes, oxidative; oxidative hair dye compns. contg.
(aminophenyl)pyrrolidinemethanols)

IT Coupling agents

Oxidizing agents

(oxidative hair dye compns. contg. (aminophenyl)pyrrolidinemethanols)

IT 89-25-8, 3-Methyl-1-phenyl-2-pyrazolin-5-one 90-15-3, 1-Naphthol
95-55-6, o-Aminophenol 95-70-5, p-Toluenediamine 95-86-3,
2,4-Diaminophenol 106-50-3, 1,4-Benzenediamine, biological studies
108-45-2D, 1,3-Benzenediamine, derivs., biological studies 108-46-3,
1,3-Benzenediol, biological studies 108-46-3D, Resorcinol, derivs.
108-95-2D, Phenol, derivs., biological studies 123-30-8, p-Aminophenol
123-30-8D, p-Aminophenol, derivs. 150-75-4, p-Methylaminophenol
591-27-5 591-27-5D, derivs. 608-25-3, 2-MethylResorcinol 2835-95-2,
2-Hydroxy-4-aminotoluene 2835-96-3, 2-Methyl-p-Aminophenol 2835-98-5,
5-Methyl-o-aminophenol 2835-99-6, 3-Methyl-p-Aminophenol 7469-77-4,
2-Methyl-1-Naphthol 7575-35-1 16867-03-1, 2-Amino-3-hydroxypyridine
17672-22-9, 6-Methyl-o-aminophenol 19298-14-7, 2-Hydroxyethyl-p-
Phenylenediamine 29785-47-5, 2-Methoxymethyl-p-Aminophenol 70643-19-5,
2-(2,4-Diaminophenoxy)ethanol 110952-46-0 251108-64-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(oxidative hair dye compns. contg.

(aminophenyl)pyrrolidinemethanols)

IT 132041-37-3P 251108-60-8P 251108-62-0P 251108-70-0P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)

(oxidative hair dye compns. contg. (aminophenyl)pyrrolidinemethanols)

IT 7722-84-1, Hydrogen peroxide, uses

RL: CAT (Catalyst use); USES (Uses)

(oxidative hair dye compns. contg. (aminophenyl)pyrrolidinemethanols)

IT 51-35-4, trans-4-Hydroxy-L-proline 350-46-9, 1-Fluoro-4-nitrobenzene
23356-96-9, (S)-(+)-2-Pyrrolidinemethanol

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxidative hair dye compns. contg. (aminophenyl)pyrrolidinemethanols)

IT 88422-19-9P 129297-51-4P 251108-59-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(oxidative hair dye compns. contg. (aminophenyl)pyrrolidinemethanols)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Andousset; US 5538516 1996 HCAPLUS
- (2) Anon; GB 2239265 1991 HCAPLUS
- (3) Anon; JP 05-188549 1993 HCAPLUS
- (4) Anon; JP 05-197107 1993 HCAPLUS
- (5) Anon; EP 0634163 1995 HCAPLUS
- (6) Bent, R; J Am Chem Soc 1951, V73, P3100 HCAPLUS
- (7) Ohki; US 5278034 1994 HCAPLUS

IT 110952-46-0

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)

(oxidative hair dye compns. contg.
(aminophenyl)pyrrolidinemethanols)

RN 110952-46-0 HCAPLUS

CN Phenol, 4-amino-2-[[(2-hydroxyethyl) amino]methyl]- (9CI) (CA INDEX NAME)

